

GIRDER SCHEDULE																															
SPAN	GIRDER	GIRDER HEIGHT H	"A" DIMENSION AT & BEARINGS	L	LL	LT	Ø1	Ø2	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMP. STRENGTH		NUMBER OF STRAIGHT STRANDS	NUMBER OF TEMP. STRANDS	E	STRAIGHT STR. TO EXTEND		STRAIGHT STRANDS TO DEBOND						DECK SCREED CAMBER C	D		REINFORCEMENT DETAILS					
										28-DAYS F'CI (ksi)	RELEASE F'CI (ksi)				END 1	END 2	GROUP 1		GROUP 2		GROUP 3			LOWER BOUND 40 DAYS	UPPER BOUND 120 DAYS	V1	V2	V3	V4	V5	V6
																	STRANDS TO DEBOND	SLEEVED LENGTH AT ENDS TO PREVENT BOND	STRANDS TO DEBOND	SLEEVED LENGTH AT ENDS TO PREVENT BOND	STRANDS TO DEBOND	SLEEVED LENGTH AT ENDS TO PREVENT BOND									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	⑦ TO ⑦	⑦ TO ⑦	⑦ TO ⑦	-	⑦ TO ⑦	-	⑦ TO ⑦	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI.
3. CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
4. THE TOP SURFACE OF THE GIRDER SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
6. ALL REINFORCING STEEL SPLICES SHALL BE 2'-0" MINIMUM, UNLESS SHOWN OTHERWISE.
7. STRUCTURAL STEEL SHAPES AND ASSEMBLIES SHALL BE ASTM A36. THEY SHALL BE PAINTED WITH A PRIMER COAT IN ACCORDANCE WITH STD. SPEC. 6-07.3(9). WELD TIES SHALL BE PAINTED WITH A FIELD PRIMER COAT OF AN ORGANIC ZINC PAINT AFTER FIELD WELDING.
8. NO TRAFFIC SHALL BE ALLOWED UNTIL THE BRIDGE DECK CONCRETE HAS ATTAINED A MINIMUM STRENGTH OF 3000 PSI.
9. TEMPORARY STRANDS SHALL BE UNBONDED OVER ALL BUT THE END 10'-0" OF THE SLAB LENGTH. TEMPORARY STRANDS SHALL BE CUT AFTER ALL VOIDED SLABS ARE ERECTED, BUT BEFORE ROADWAY CONCRETE SLAB IS CAST.
10. DEFORMED WELDED WIRE REINFORCEMENT CONFORMING TO SECTION 9-07.7 WITH DEFORMED WIRE CONFORMING TO SECTION 9-07.8 MAY BE SUBSTITUTED FOR MILD STEEL REINFORCEMENT IF AASHTO LRFD BRIDGE DESIGN SPECIFICATION REQUIREMENTS (INCLUDING DEVELOPMENT AND ANCHORAGE) ARE MET. WELDED WIRE REINFORCEMENT SHALL HAVE THE SAME AREA AND SPACING AS THE MILD STEEL REINFORCEMENT THAT IT REPLACES AND THE YIELD STRENGTH SHALL BE GREATER THAN OR EQUAL TO 60 KSI. SHEAR STIRRUP LONGITUDINAL WIRES AND TACK WELDS SHALL BE EXCLUDED FROM GIRDER WEBS. LONGITUDINAL WIRES FOR ANCHORAGE OF WELDED WIRE REINFORCEMENT SHALL HAVE AN AREA OF 40% OR MORE OF THE AREA OF THE WIRE BEING ANCHORED BUT SHALL NOT BE LESS THAN D4.

NOTES TO DESIGNER:

1. SLAB GIRDER DETAIL SHEETS 1 TO 3 ARE INTENDED TO BE USED AS IS WITHOUT NEED FOR MODIFICATION FOR MOST PROJECTS. PROJECT SPECIFIC GIRDER DETAILS ARE THEN LIMITED TO THE GIRDER SCHEDULE.
2. V1 SPA. Ø V2 IS INTENDED TO BE THE SPLITTING RESISTANCE ZONE DEFINED BY BDM 5.6.2.F.
3. V3 SPA. Ø V4 IS INTENDED TO BE THE CONFINEMENT REINFORCEMENT ZONE DEFINED BY BDM 5.6.2.G.
4. DIMENSIONS IN THE GIRDER SCHEDULE SHALL BE SHOWN TO THE NEAREST 1/8TH INCH.
5. THESE SHEETS ASSUME STANDARD GIRDER WIDTHS. GIRDER WIDTHS MAY VARY FROM THE STANDARD WIDTH UP TO 8'-0" BUT THESE SHEETS MUST BE MODIFIED ACCORDINGLY.
6. MAXIMUM GIRDER LENGTHS ARE AS FOLLOWS:
33.33 FT FOR H = 12"
50.00 FT FOR H = 18"
72.22 FT FOR H = 26"
83.33 FT FOR H = 30"
100.00 FT FOR H = 36"
7. PROVIDE A LONGITUDINAL #4 IN CIP ROADWAY SLAB INSIDE [G9] HOOKS (TYP.)
8. DOWEL BARS AND HOLES MAY BE DELETED IF TRANSVERSE STOPS ARE PROVIDED. CHECK DOWEL BARS FOR ADEQUACY.
9. GAP BETWEEN SLAB UNITS MAY VARY AT OR NEAR CROWNS OR SUPERELEVATION ANGLE POINTS. CONSIDER A LARGER CONNECTION ROD OR PLATE IF NECESSARY.
10. PLACE DEBONDED STRANDS IN INTERIOR LOCATIONS WITHIN SECOND ROW IF POSSIBLE.
11. MAXIMUM SKEW ANGLE IS 30°.
12. THIS STANDARD IS INTENDED TO BE USED WITH A 5" MINIMUM CIP CONCRETE DECK. MODIFICATIONS ARE REQUIRED IF THIS STANDARD IS USED WITH AN HMA OVERLAY.

Bridge Design Engr.	M:\STANDARDS\Girders\Flat Slab\SLAB SCHEDULE AND NOTES.MAN										REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor											10	WASH.			
Designed By															
Checked By															
Detailled By															
Bridge Projects Engr.															
Prelim. Plan By															
Architect/Specialist	DATE	REVISION	BY	APPD											

BRIDGE
AND
STRUCTURES
OFFICE

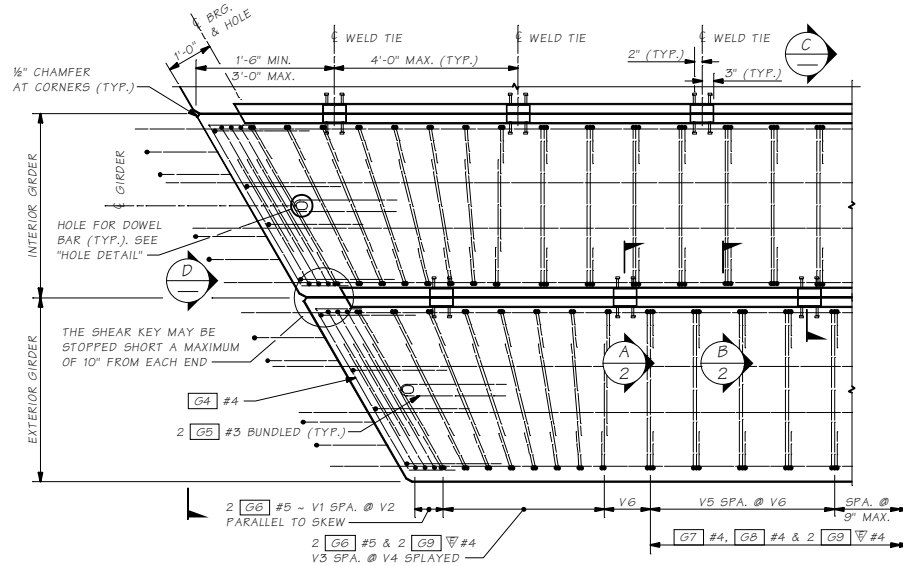


Washington State
Department of Transportation

STANDARD
PRESTRESSED CONCRETE GIRDERS

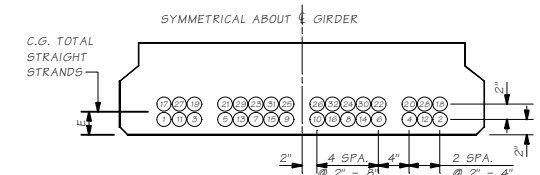
SLAB GIRDER
GIRDER SCHEDULE

BRIDGE SHEET NO.
OF
SHEETS



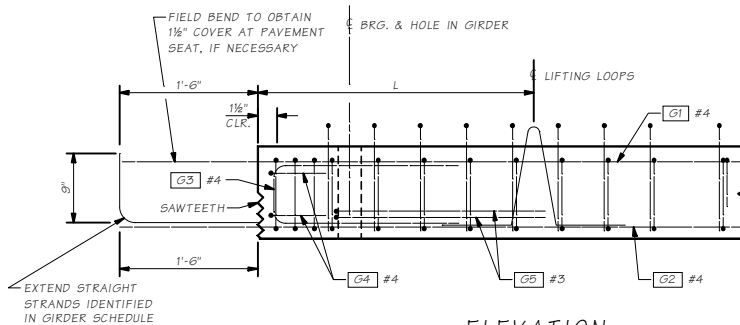
PLAN

51 BARS NOT SHOWN FOR CLARITY. SEE TRAFFIC BARRIER SHEETS FOR DETAILS AND LOCATION.

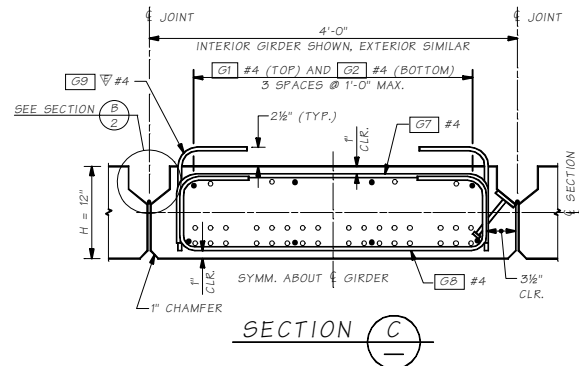


STRAND PATTERN

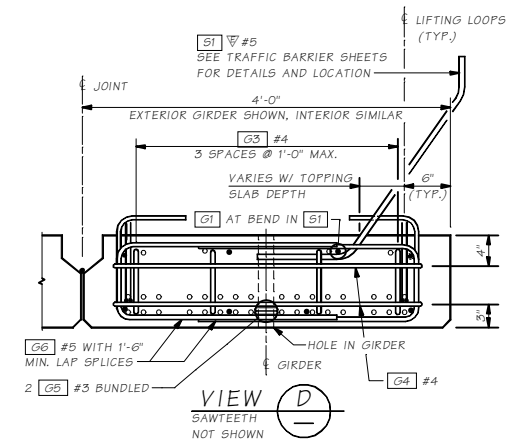
STRAIGHT STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN (1), (2) ETC.



ELEVATION



SECTION C



VIEW D
SAWTEETH
NOT SHOWN

Bridge Design Engr.		M:\STANDARDS\Girders\Flat Slab\SLAB 12 - 1 OF 2.MAN									
Supervisor					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
Designed by					10	WASH.					
Checked by											
Detailed by											
Bridge Projects Engr.					JOB NUMBER						
Projim. Plan by											
Architect/Specialist	DATE	REVISION		BY	APP'D						

BRIDGE
AND
STRUCTURES
OFFICE



**Washington State
Department of Transportation**

STANDARD PRESTRESSED CONCRETE GIRDERS

12" SLAB GIRDER
DETAILS 1 OF 2

BRIDGE
SHEET
NO

SHEET

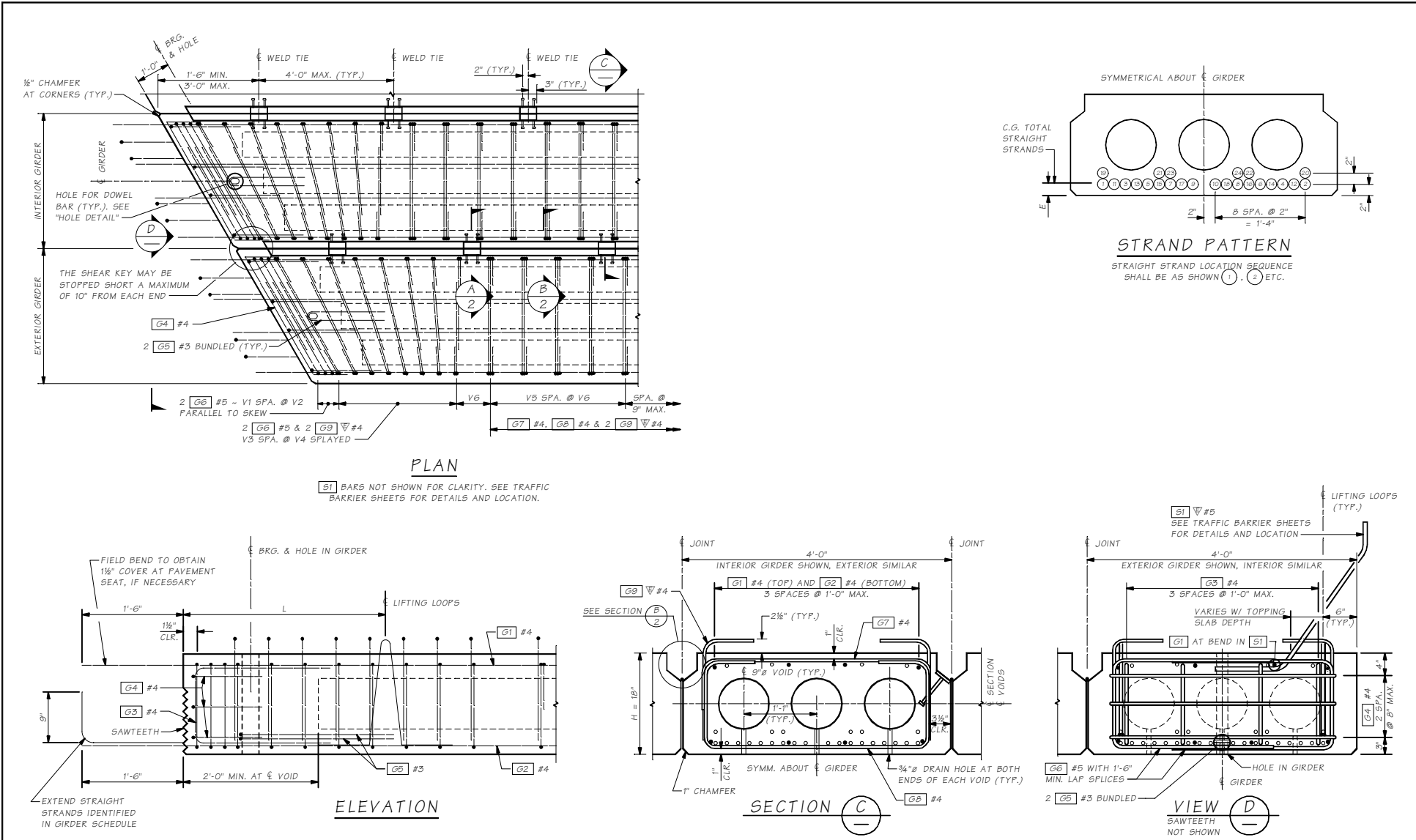
OF

SHEETS

Last revised on : 7/8/2011

56-A8-2
SR FILE NO. SHEET

Thu Jan 26 08:31:20 2012



[G1] BARS NOT SHOWN FOR CLARITY. SEE TRAFFIC BARRIER SHEETS FOR DETAILS AND LOCATION.

[G1] #5 SEE TRAFFIC BARRIER SHEETS FOR DETAILS AND LOCATION

Bridge Design Eng.	M:\STANDARD\Girders\Flat Slab\SLAB 18 - 1 OF 2.MAN
Supervisor	
Designed By	
Checked By	
Detailed By	
Bridge Projects Eng.	
Prelim. Plan By	
Architect/Engineer	
DATE	REVISION
BY	APPD

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

STANDARD PRESTRESSED CONCRETE GIRDERS

18" SLAB GIRDER

DETAILS 1 OF 2

BRIDGE SHEET NO.

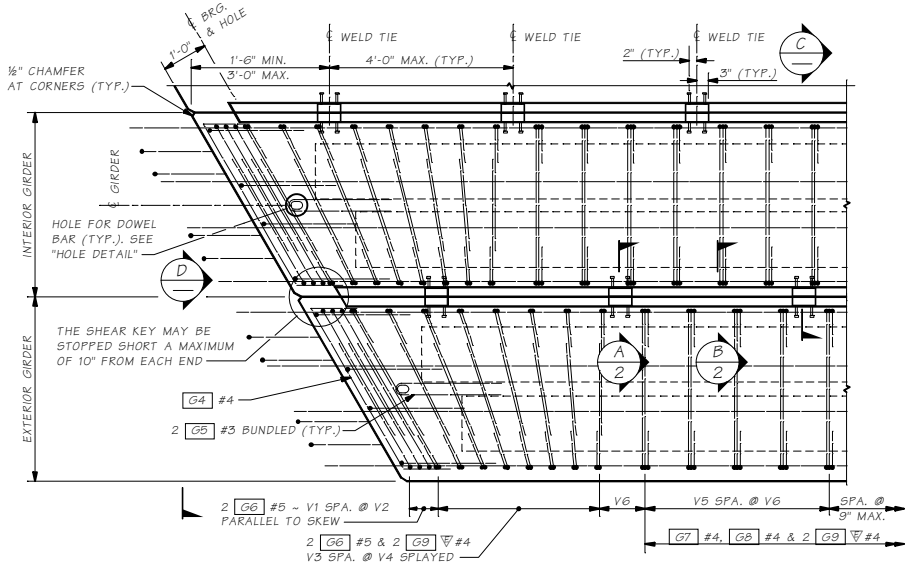
DATE

OF

SHEETS

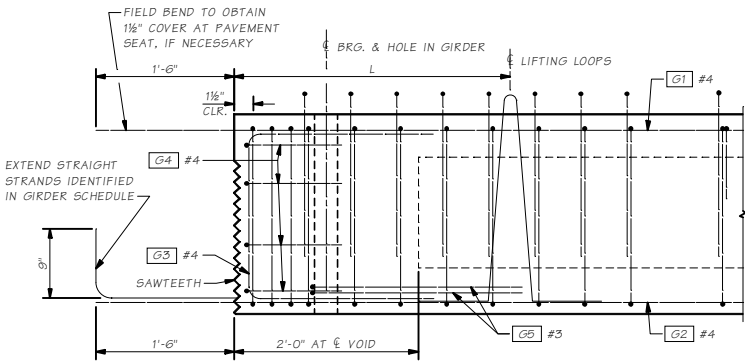
Last revised on : 7/8/2011

5.6-A-8-3

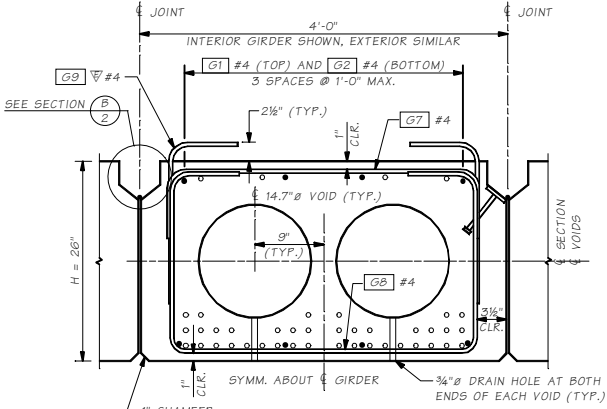


PLAN

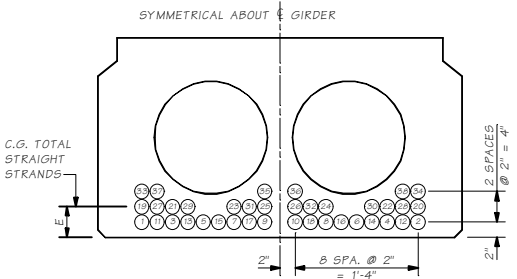
S1 BARS NOT SHOWN FOR CLARITY. SEE TRAFFIC BARRIER SHEETS FOR DETAILS AND LOCATION.



ELEVATION

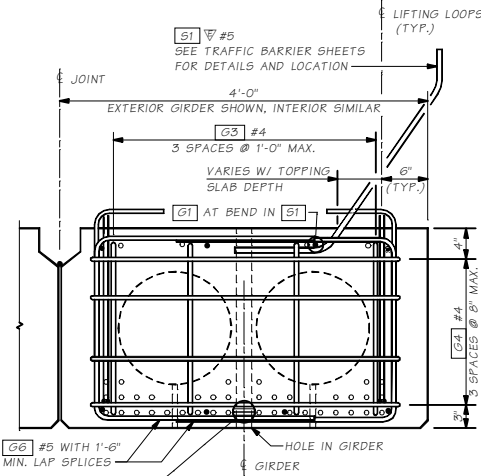


SECTION C



STRAND PATTERN

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS SHOWN (1), (2) ETC.



VIEW D

SAWTEETH NOT SHOWN

Bridge Design Engr.	M:\STANDARD\Girders\Flat Slab\SLAB 26 - 1 OF 2.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Engineer						
DATE	REVISION	BY	APPD.			

BRIDGE
AND
STRUCTURES
OFFICE



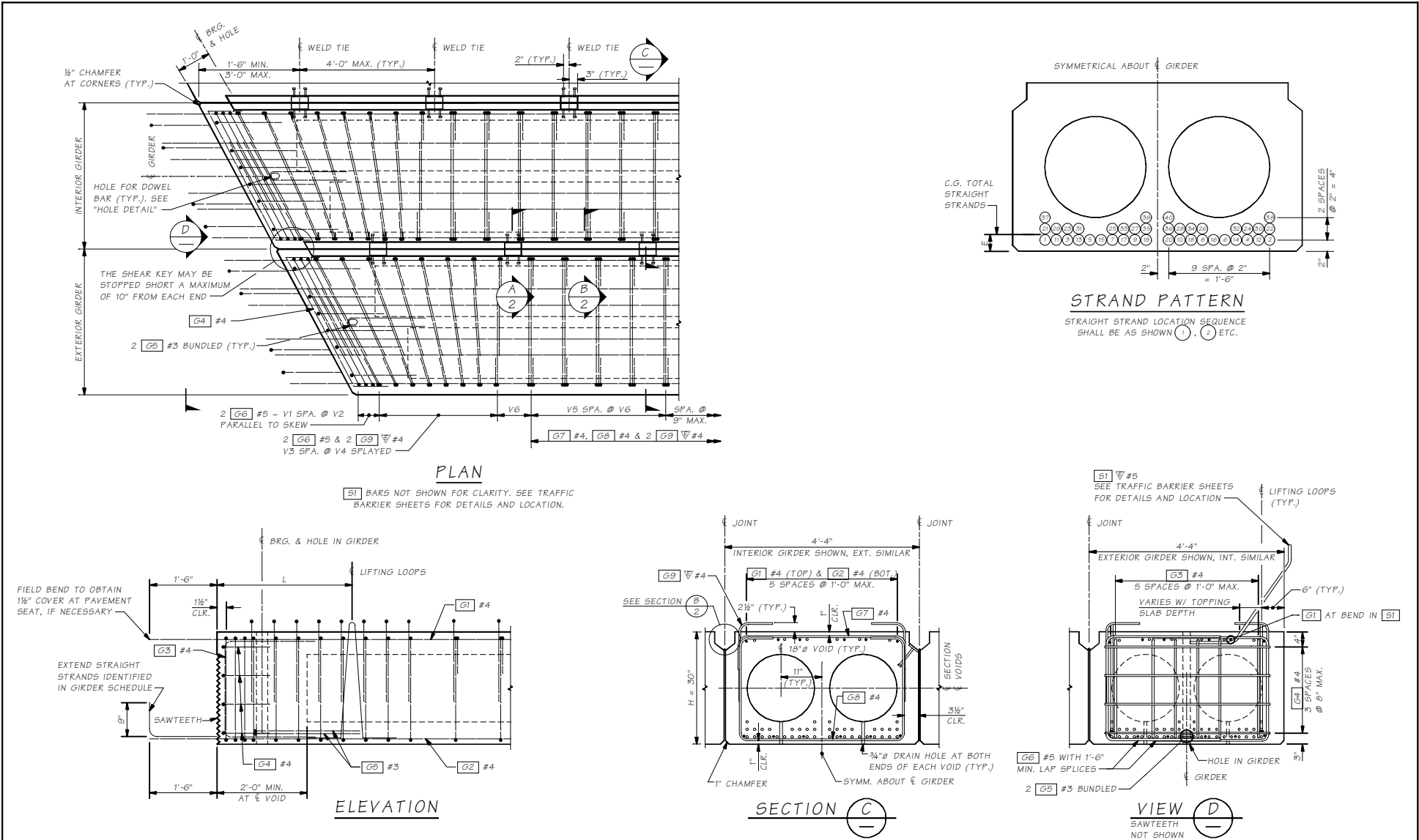
STANDARD
PRESTRESSED CONCRETE GIRDERS

26" SLAB GIRDER
DETAILS 1 OF 2

BRIDGE SHEET NO.
DATE
OF
SHEETS

Last revised on : 7/8/2011

5.6-A8-4



Last revised on : 7/8/2011

5.6-A8-5

Bridge Design Engr.	M:\STANDARD\Girders\Flat Slab\SLAB 30 - 1 OF 2.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Engineer						
DATE	REVISION	BY	APPD			

BRIDGE
AND
STRUCTURES
OFFICE

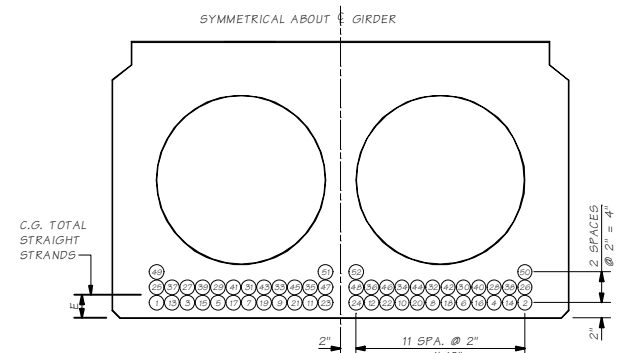
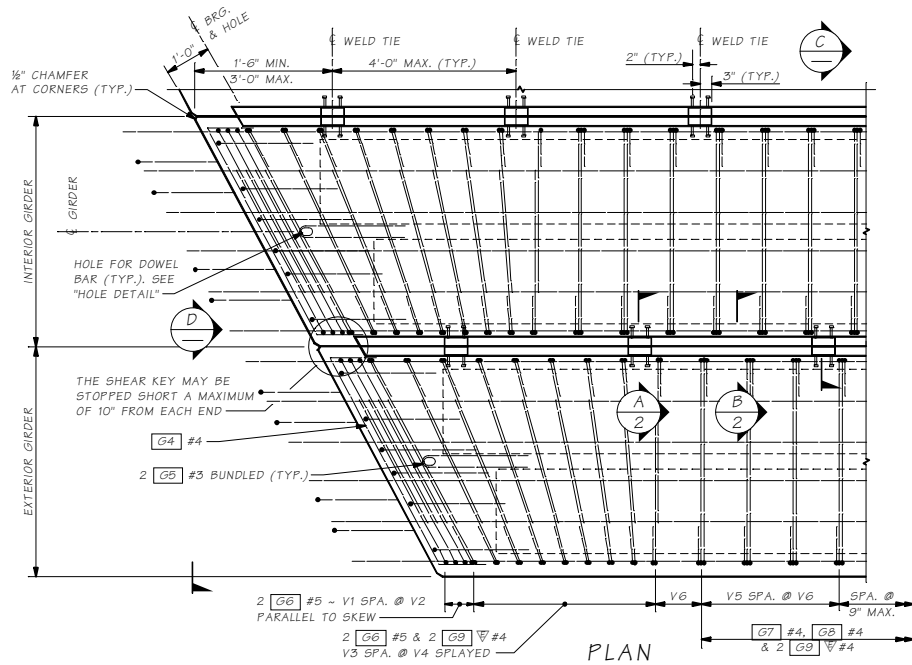


STANDARD
PRESTRESSED CONCRETE GIRDERS

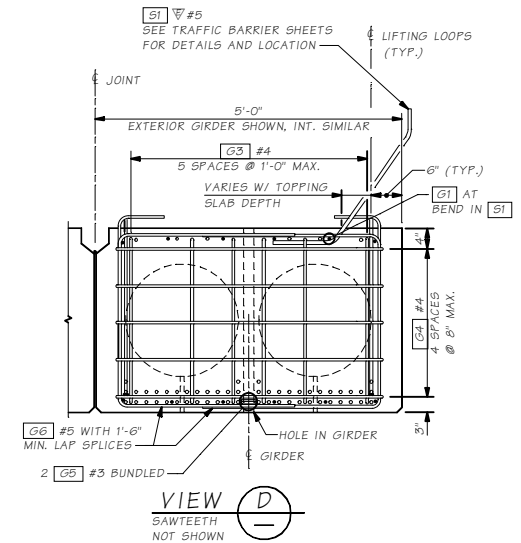
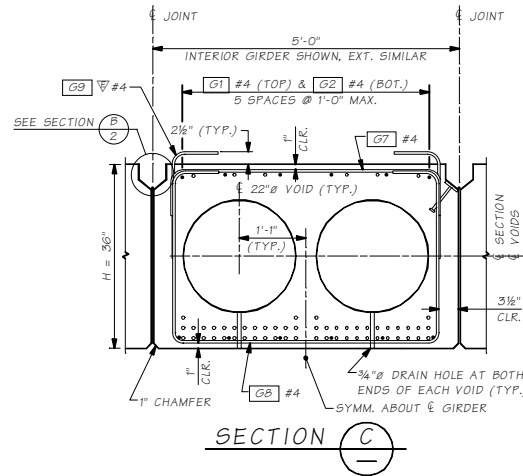
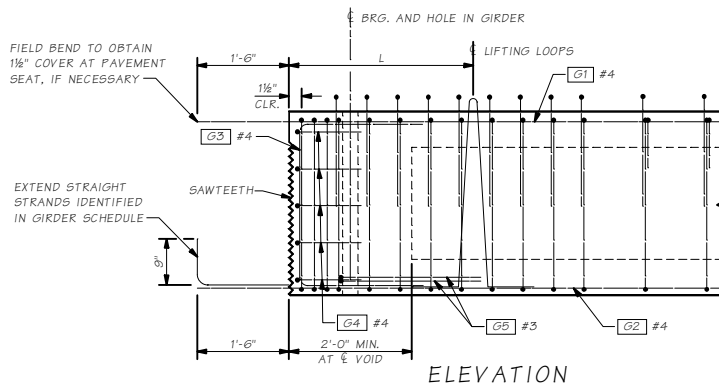
30" SLAB GIRDER

DETAILS 1 OF 2

BRIDGE SHEET NO.
OF
SHEETS

**STRAND PATTERN**

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS SHOWN (1), (2) ETC.



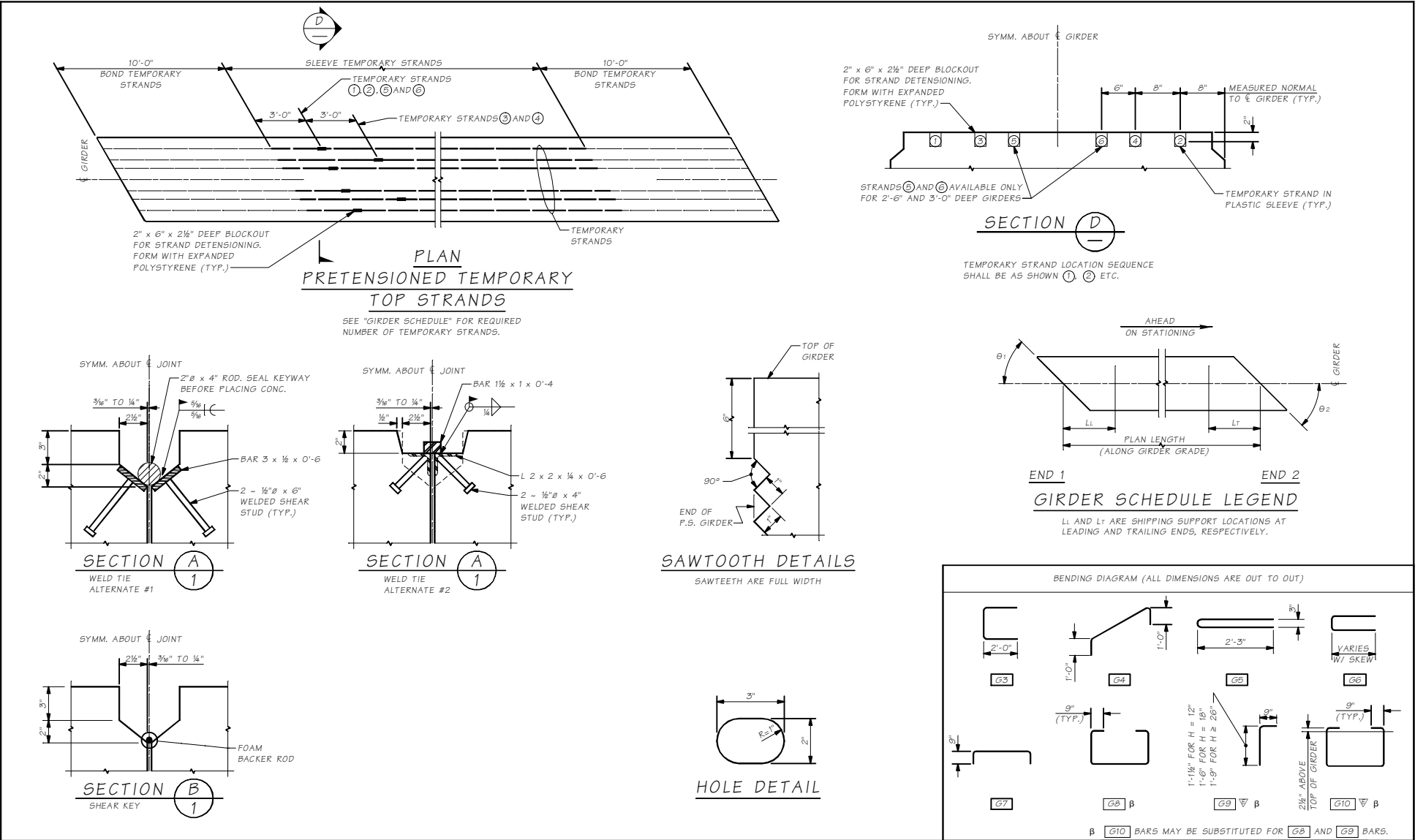
Last revised on: 7/8/2011

5.6-A8-6

Bridge Design Engr.	M:\STANDARD\Girders\Flat Slab\SLAB 36 - 1 OF 2\MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Engineer						
DATE	REVISION	BY	APPD			

Thu Jan 26 08:31:20 2012

BRIDGE
AND
STRUCTURES
OFFICEWashington State
Department of TransportationSTANDARD
PRESTRESSED CONCRETE GIRDERS36" SLAB GIRDER
DETAILS 1 OF 2BRIDGE
SHEET
NO.
OF
SHEETS



Last revised on : 7/8/2011

5.6-A8-7

Bridge Design Eng.	M:\STANDARD\Girders\Flat Slab\SLAB 2 OF 2.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailled By						
Bridge Projects Eng.						
Prelim. Plan By						
Architect/Specialist						
DATE	REVISION	BY	APPD.			

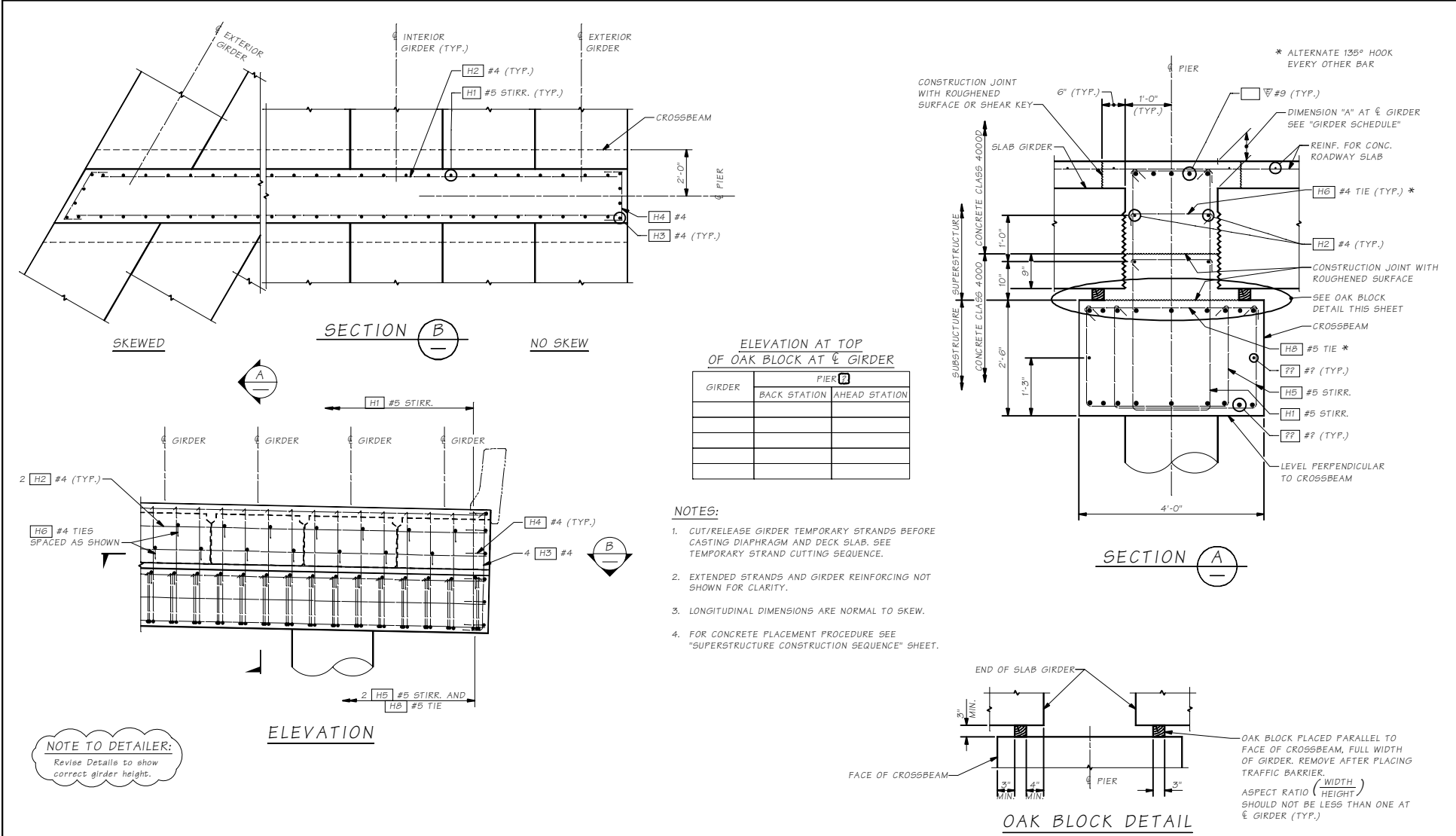
BRIDGE
AND
STRUCTURES
OFFICE



STANDARD
PRESTRESSED CONCRETE GIRDERS

SLAB GIRDER
DETAILS 2 OF 2

BRIDGE SHEET NO.
OF
SHEETS



Last revised on : 7/20/2011

5.6-AB-8

Bridge Design Eng.	M:\STANDARD\Girders\Flat Slab\SLAB GIRDER FIXED DIAPHRAGM.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Eng.						
Prelim. Plan By						
Architect/Engineer						
DATE	REVISION	BY	APPD.			

Thu Jan 26 08:31:21 2012

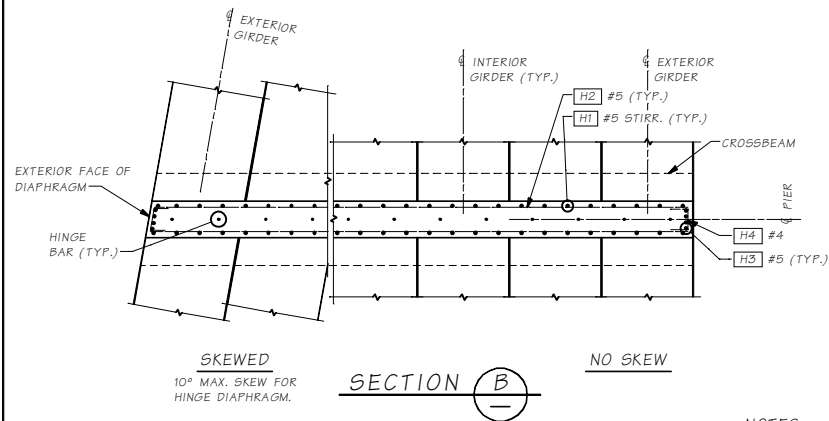
BRIDGE
AND
STRUCTURES
OFFICE



STANDARD
PRESTRESSED CONCRETE GIRDERS

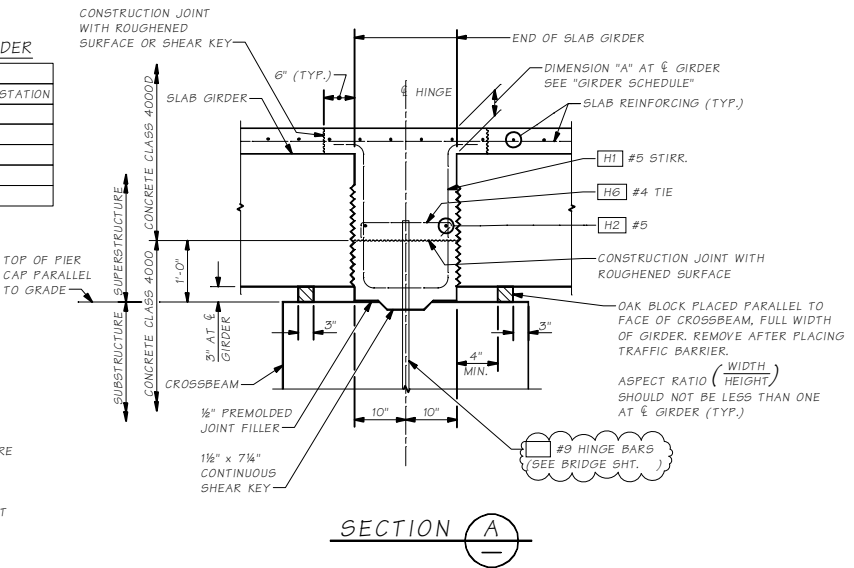
SLAB GIRDER
FIXED DIAPHRAGM

BRIDGE SHEET NO.
OF
SHEETS

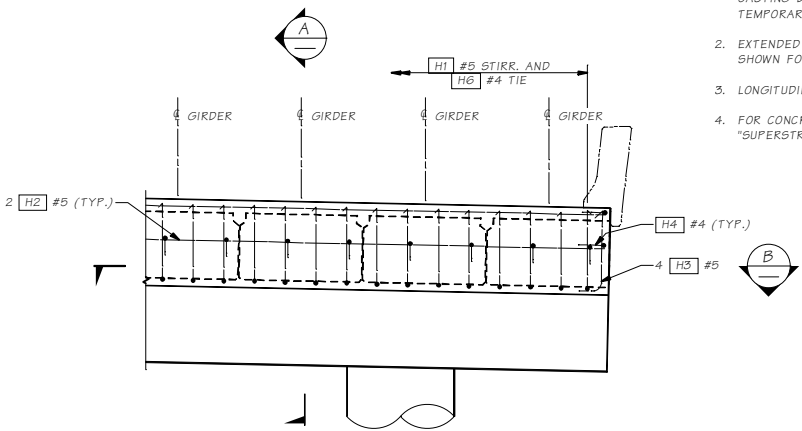


ELEVATION AT TOP OF OAK BLOCK AT G GIRDER

GIRDER	PIER 2	
	BACK STATION	AHEAD STATION

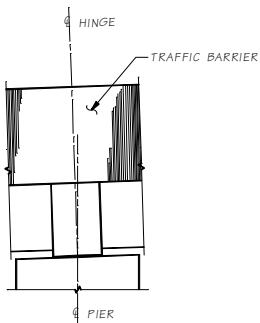


- NOTES:
- CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM AND DECK SLAB. SEE TEMPORARY STRAND CUTTING SEQUENCE.
 - EXTENDED STRANDS AND GIRDER REINFORCING NOT SHOWN FOR CLARITY.
 - LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
 - FOR CONCRETE PLACEMENT PROCEDURE SEE "SUPERSTRUCTURE CONSTRUCTION SEQUENCE" SHEET.

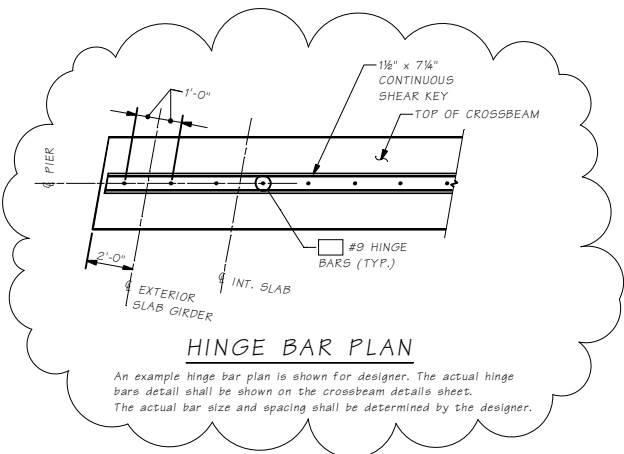


NOTE TO DETAILER:
Revise Details to show correct girder height.

ELEVATION



END VIEW
HINGE DIAPHRAGM



HINGE BAR PLAN

An example hinge bar plan is shown for designer. The actual hinge bars detail shall be shown on the crossbeam details sheet. The actual bar size and spacing shall be determined by the designer.

Last revised on : 7/20/2011

LEADER ON RTM BS

5.6-A8-9

Bridge Design Eng.	M:\STANDARD\Girders\Flat Slab\SLAB GIRDER HINGED DIAPHRAGM.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Eng.						
Prelim. Plan By						
Architect/Specialist						
DATE	REVISION	BY	APPD			

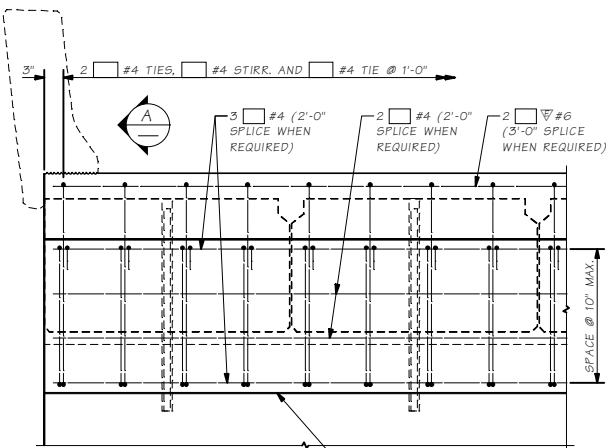
BRIDGE
AND
STRUCTURES
OFFICE



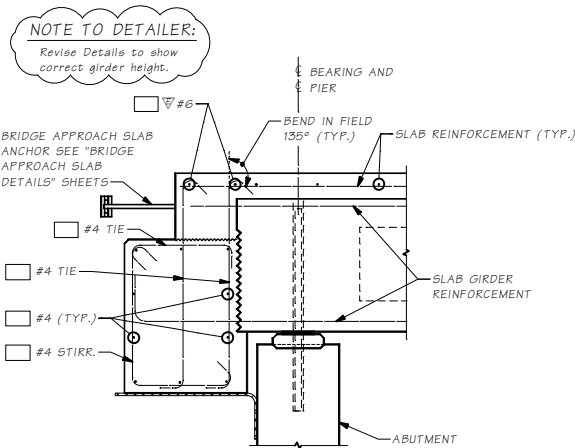
STANDARD
PRESTRESSED CONCRETE GIRDERS

SLAB GIRDER
HINGE DIAPHRAGM

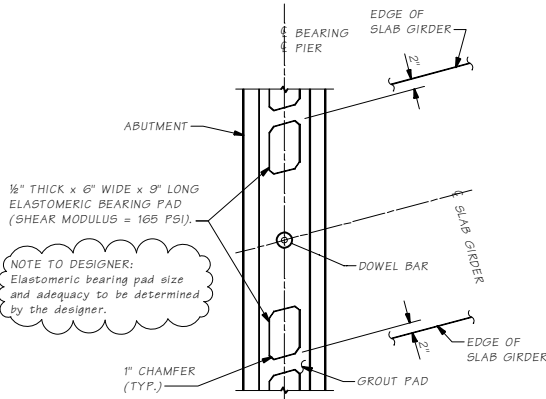
BRIDGE SHEET NO.
OF
SHEETS



ELEVATION
END DIAPHRAGM
DIMENSIONS ARE ALONG DIAPHRAGM

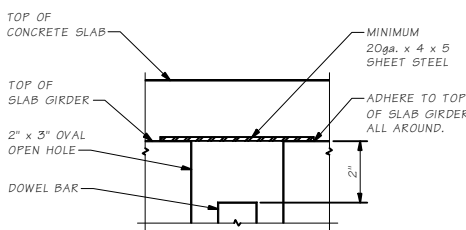


SECTION A

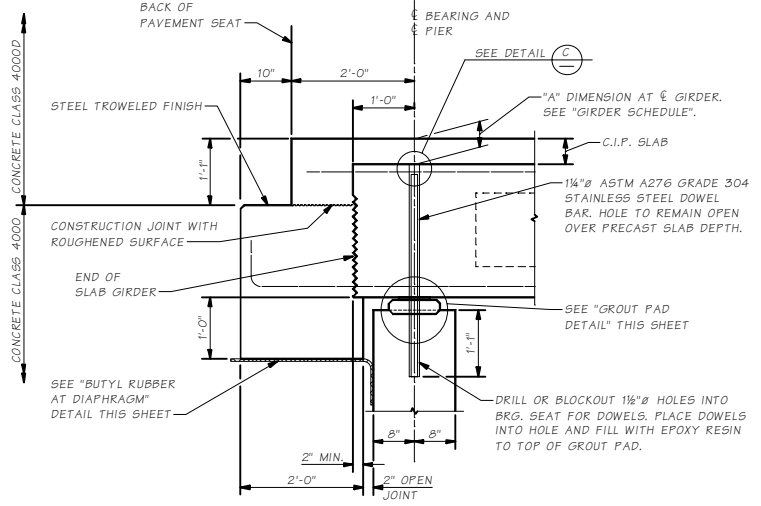


SECTION B

NOTE: FULL BEARING OF SLAB UNIT IS REQUIRED AT EACH ELASTOMERIC BEARING

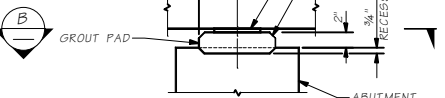


DETAIL C

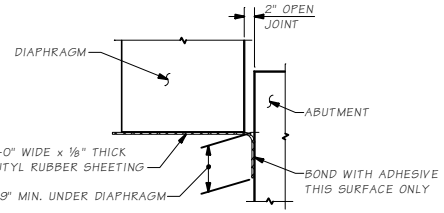


END DIAPHRAGM GEOMETRY
DIMENSIONS ARE NORMAL TO \bar{c} BEARING.

Dowel bars may be deleted if transverse stops are provided.



GROUT PAD DETAIL



ELEVATION
BUTYL RUBBER
AT DIAPHRAGM

Last revised on : 7/20/2011

5.6-A8-10

Bridge Design Eng.	M:\STANDARD\Girders\Flat Slab\SLAB GIRDER END DIAPHRAGM.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Eng.						
Prelim. Plan By						
Architect/Engineer						
DATE	REVISION	BY	APPD			

Thu Jan 26 08:31:21 2012

BRIDGE
AND
STRUCTURES
OFFICE



STANDARD
PRESTRESSED CONCRETE GIRDERS

SLAB GIRDER
END PIER

BRIDGE SHEET NO.
OF
SHEETS